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work, and the influence of working conditions upon the health, output and happiness of the workers, are examples of those which could be made subjects of research. The underlying ideas which led to the conference, were (1) the advantages of studying such questions by the scientific method of gathering facts and using them to reach conclusions instead of discussing opinions and propaganda, and (2) the need for cooperation among the organizations and individuals engaged in such studies.

GRANTS FOR RESEARCH MADE BY THE  
AMERICAN ASSOCIATION FOR THE  
ADVANCEMENT OF SCIENCE

At the Chicago meeting of the association, the Committee on Grants distributed five thousand dollars for the year 1921 in different sciences as follows:

MATHEMATICS

One hundred and fifty dollars to Professor Solomon Lefschetz, of Kansas University, in support of his work in algebraic geometry.

PHYSICS

One hundred and fifty dollars to Professor W. F. G. Swann, of the University of Minnesota, for the investigation of atmospheric electric phenomena in the upper air.

Two hundred and fifty dollars to Professor H. M. Randall, of the University of Michigan, in support of his work on the infra-red rotational absorption spectra of gases.

Two hundred dollars to Professor Walter G. Cady, Wesleyan University, Middletown, Connecticut, in support of his work on electrical reactions produced by piezo-electric crystals in high frequency circuits, and the internal viscosity of elastic solids.

One hundred dollars to Professor Paul F. Gaehr, of Wells College, for his study on the specific heat of tungsten at incandescent temperatures.

One hundred dollars to Professor Arthur L. Foley, of Indiana University, in continuation of a previous grant for his experiments on the speed of sound close to the source.

CHEMISTRY

Two hundred dollars to Dr. Gerald L. Wendt, University of Chicago, for investigations at high temperatures.

Two hundred dollars to Professor Graham Edgar, of the University of Virginia, for the purchase of a quartz mercury arc lamp for research in photo-chemistry.

ASTRONOMY

Two hundred dollars to Dr. Sebastian Albrecht, of Dudley Observatory, Albany, New York, in support of his investigation of the variation of wave-length of lines in different types of stellar spectra.

Two hundred dollars to Miss Caroline E. Furness, Vassar College Observatory, for assistance in the measurement and reduction of photographic plates.

GEOLOGY

Three hundred dollars to Mr. Frank B. Taylor, Fort Wayne, Indiana, as a second grant in support of his field studies on the stages of the last glacier as it retreated down the St. Lawrence Valley.

Two hundred dollars to the Seismological Society of America, to replenish the fund at their disposal for the immediate investigation of earthquakes by sending a competent observer to the place of occurrence before much of the evidence has been obliterated.

ZOOLOGY

Two hundred dollars to Dr. P. W. Whiting, of St. Stephens College, in addition to previous grants in support of his study of genetics in insects.

Four hundred and fifty dollars to Dr. N. A. Cobb, of the United States Department of Agriculture, for aid in a series of researches into the physiology of the cell; also to defray cost of publication of results already on hand.

BOTANY

Three hundred dollars to Professor George B. Rigg, of the University of Washington, for work on the sphagnum bogs of the Puget Sound region.

Five hundred dollars to Professor J. M. Greenman, Missouri Botanical Garden, toward the completion of his work on the *Senecio* and related genera.

PSYCHOLOGY

One hundred and fifty dollars to Professor T. R. Garth, of the University of Texas, for a psychological study of Indiana children in the United States Indian Schools at Chillico, Oklahoma, and Albuquerque, New Mexico.

One hundred and fifty dollars to Professor E. G. Boring, Clark University, for the preparation of

a set of steel acoustic cylinders to be used in determining the nature of sensory response under conditions of normal psychometric situation.

#### ANTHROPOLOGY

Two hundred dollars to Professor A. L. Kroeber, of the University of California, for bibliographical and clerical assistance in connection with an ethnological investigation to determine the culture areas of aboriginal South America.

One hundred and fifty dollars to Miss Helen H. Roberts, of the American Museum of Natural History, for a study of negro folk-music in Jamaica.

#### PHYSIOLOGY AND MEDICINE

One hundred and fifty dollars to Professor Carl J. Wiggers, Western Reserve University, in continued support of his investigation on the physiology of the circulation.

One hundred and fifty dollars to Professor Frank A. Hartman, University of Buffalo, for aid in the study of suprarenal insufficiency, including circulatory, respiratory, temperature, and fatigue changes, as well as possible histological alterations in the ductless glands.

Two hundred dollars to Professor W. E. Garrey, Tulane University, for the purchase of apparatus for hydrogen ion determination.

One hundred and fifty dollars to Professor F. P. Knowlton, Syracuse University, in support of a study of the blood flow and gaseous metabolism in the thyroid gland.

JOEL STEBBINS,

*Secretary Committee on Grants*

URBANA, ILLINOIS

#### SCIENTIFIC NOTES AND NEWS

DR. WILLIAM CROCKER, associate professor of botany in the University of Chicago, has been appointed director of the newly founded Thompson Institute for Plant Research at Yonkers, New York. He will enter on his work next autumn. The board of trustees of the new foundation will consist of three business men and three scientific men. Professor John M. Coulter, head of the department of botany at the University of Chicago, and Raymond F. Bacon, of the Mellon Institute of Pittsburgh, will be two of the scientific men, and these two will select the third.

THE nomination made by ex-President Wilson, not confirmed by the Senate before

adjournment, of Rear-Admiral E. R. Stitt to the position of Surgeon-General of the Navy, succeeding Rear-Admiral Braisted, retired, has been sent again to the Senate by President Harding.

HONORARY membership in the Chemists' Club of New York City was conferred upon four American and four foreign chemists at the dinner commemorating the tenth anniversary of the opening of its present home at 52 East Forty-first Street. The foreign chemists were Dr. Giacomo Giamician, professor of general chemistry at the University of Bologna, Italy; Dr. Henri Louis Le Chatelier, professor at the Collège de France and at L'Ecole des Mines; Dr. Ernest Solvay, of Brussels, Belgium, founder of the ammonia-soda process, and Sir Edward Thorpe, professor of chemistry emeritus of the Imperial College of Science and Technology, South Kensington, England. The Americans were Dr. John Uri Lloyd, of Cincinnati, former president of the American Pharmaceutical Association; Dr. William Henry Nichols, of New York, former president of the American Chemical Society, the Society of Chemical Industry and the Eighth International Congress of Applied Chemistry; Dr. Edgar Fahs Smith, of Philadelphia, President of the American Chemical Society and until recently provost of the University of Pennsylvania, and Dr. Edward Weston of Newark, N. J.

DR. FRANK WIGGLESWORTH CLARK and Dr. H. S. Washington have been elected foreign members of the Geological Society of London.

THE following fifteen candidates have been selected by the council of the Royal Society to be recommended for election into the society: Dr. W. E. Agar, Dr. F. W. Aston, Professor W. L. Bragg, Dr. W. T. Calman, Dr. A. Church, Professor G. Dreyer, Professor W. H. Eccles, Dr. J. C. G. Ledingham, Mr. C. S. Middlemiss, Professor K. J. P. Orton, Dr. J. H. Parsons, Professor J. C. Philip, Dr. A. A. Robb, Sir E. Tennyson D' Eyncourt, and Mr. G. Udny Yule.

THE council of the Chemical Society has awarded the Longstaff medal to Professor J. F.